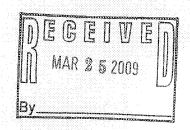


PIKE TECHNICAL SERVICES, INC.

183 Tollage Creek Pikeville, Kentucky 41501 Phone: (606) 432-0300 or Fax: (606) 433-1820

March 24, 2009



Mr. Larry Sowder Environmental and Public Protection Cabinet Division of Water Frankfort Office Park 14 Reilly Road Frankfort, KY 40601

Re: Matt/Co, Inc.

DNR Permit No. 836-0351 NW

Dear Mr. Sowder:

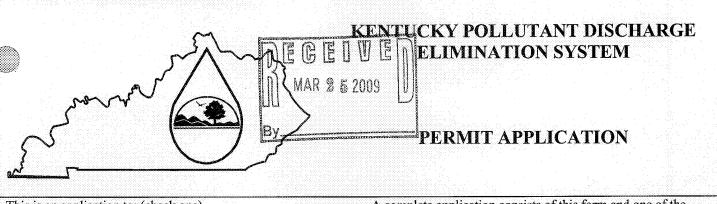
On behalf of Matt/Co, Inc., I wish to submit for review and processing an individual KPDES for the above referenced mining permit located in Merritt Branch in Floyd County, Kentucky. This permit will have one (1) surface water monitoring point and one (1) sediment pond. I have included KPDES Forms 1, C and HQAA as well as pertinent maps and analyses required for an individual KPDES permit.

Please feel free to contact me if you have any questions or need additional information.

Sincerely, James Poustien

James Preston Project Manager

c: file



Apply for a new permit. Apply for construction permit. Apply for a construction permit. Modify an existing permit. Give reason for modification under Item II.A. I. FACILITY LOCATION AND CONTACT INFORMATION I. FACILITY DESCRIPTION A Name of business, municipality, company, etc. requesting permit MATICO, INC. MATICO, INC. MATICO, INC. Mailing Street: MERRITT BRANCH Facility Location City, State, Zip Code: Mailing City, State, Zip Code: MERRITT BRANCH PRESTONSBURG, KY 41653 Telephone Number: 606-886-0611 II. FACILITY DESCRIPTION A. Provide a brief description of activities, products, etc: This application proposes a surface mining operation in Merrit Branch of Floyd County. II. FACILITY DESCRIPTION A. Provide a brief description of activities, products, etc: This application proposes a surface mining operation in Merrit Branch of Floyd County. B. Standard Industrial Classification (SIC) Code and Description Principal SIC Code & Description: Other SIC Codes:	This is an application to: (abox	Ir ana)	A complete application consists of this form and one of the
Apply for reissuance of expiring permit. Apply for a construction permit. Give reason for modification under Item II.A. **Recruit V Location And Contact:** **Recruit V Location And Location** **Reality Location Address (i.e. street, road, etc.):** **Mattr.Co, Inc.** **Mattr.Co, Inc.** **Mattr.Co, Inc.** **Mempirit Branch** **Pressions Burg, KY 41653** **Telephone Number:* **60-846-0611** **H. FACILITY DESCRIPTION** A. Provide a brief description of activities, products, etc: This application proposes a surface mining operation in Merrit Branch of Floyd County. **B. Standard Industrial Classification (SIC) Code and Description** **Principal SIC Code & Description:* **B. Standard Industrial Classification (SIC) Code and Description Principal SIC Code & Description:* **B. Standard Industrial Classification (SIC) Code and Description Principal SIC Code & Description:* **B. Standard Industrial Classification (SIC) Code and Description Principal SIC Code & Description:* **B. Standard Industrial Classification (SIC) Code and Description Principal SIC Code & Description:* **B. Standard Industrial Classification (SIC) Code and Description Principal SIC Code & Description:* **B. Standard Industrial Classification (SIC) Code and Description Principal SIC Code & Description:* **B. Standard Industrial Classification (SIC) Code and Description Principal SIC Code & Description:* **B. Standard Industrial Classification (SIC) Code and Description Principal SIC Code & Description:*			
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D. Facility Site Latitude (degrees, minutes, seconds): Facility Site Longitude (degrees, minutes, seconds): 82° 41' 44"		charge:	
37° 38' 27" 82° 41' 44"			
Method used to obtain latitude & longitude (see instructions): LANCER TOPOGRAPHIC MAP		ees, minutes, seconds):	
	Method used to obtain latitu	de & longitude (see instructions):	LANCER TOPOGRAPHIC MAP
··· F. Facility Dun and Bradstreet Number (DI INS #) (if annlicable): Ν/Δ	(4)		

IV. OWNER/OPERATOR INFORM	ATION		
A. Type of Ownership: ☐ Publicly Owned ☒ Privately O	wned State Owned	Both Public and	Private Owned Federally owned
Operator Contact Information (See in time of Treatment Plant Operator: N/A	nstructions)	Telephone Number:	
Operator Mailing Address (Street):			
Operator Mailing Address (City, State, Zip Code):			
Is the operator also the owner? Yes No			ied? If yes, list certification class and number below.
Certification Class:		Certification Number	
V. EXISTING ENVIRONMENTAL I Current NPDES Number:	PERMITS Issue Date of Current Per	rmit:	Expiration Date of Current Permit:
			PENDING
Number of Times Permit Reissued:	Date of Original Permit I	ssuance:	Sludge Disposal Permit Number:
Kentucky DOW Operational Permit #:	Kentucky DSMRE Perm	it Number(e)	
Assimondy Do W Openicolaid a sound in	836-0351		PENDING
C. Which of the following additional en		RMIT WITH NO.	PERMIT NEEDED WITH PLANNED APPLICATION DATE
Emission Source	N/	Α	
Solid or Special Waste	N/	Ά	
Hazardous Waste - Registration or Perm	nit N/	A	
17 NEGOVINGUARANTANDA 6			
	submit DMRs to the Diserves to specifically iden		n a regular schedule (as defined by the KPDES, office or individual you designate as responsible
A. Name of department, office or officia	al submitting DMRs:	CLARK PERGI	REM
B. Address where DMR forms are to be	sent. (Complete only if ac	ldress is different fi	om mailing address in Section I.)
DMR Mailing Name:	MATT/CO, INC.		
DMR Mailing Street:	439 MEADOWS BR.	ANCH	
DMR Mailing City, State, Zip Code:	PRESTONSBURG, K	CY 41653	
DMR Official Telephone Number:	606-886-0611		

VII. APPLICATION FILING FEE

KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please mine the base and filing fees listed below and in the Form 1 instructions and enclose a check payable to "Kentucky State reasurer" for the appropriate amount. Descriptions of the base fee amounts are given in the "General Instructions."

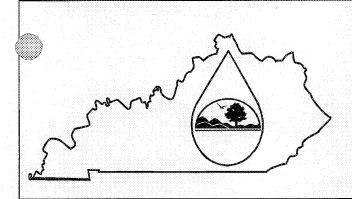
	100				 	044	
Facility Fee Category:	•						
		1 / P					
Surface Mining Operation	 		3/44111111	 	 		<u> </u>

VIII, CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):
CLARK PERGREM, PRESIDENT	606-886-0611
SIGNATURE	DATE:
Plantilanous	
CARE KILLING	March 24, 2009

KPDES FORM C



KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT APPLICATION

A complete application consists of this form and Form 1. For additional information, contact KPDES Branch, (502) 564-3410.

Name of Facility:	MATT/CO, I	NC.			Cou	inty: FLOY	D						
I. OUTFALL LO		Ą	GENCY USE	0		0	7	7	7	8			
For each outfall list	000000000000000000000000000000000000000	Alberta and the American State of the American	of its location	to the nea				name (of the	receivi	ng water	•	
Outfall No.		LATITUDE			1	ONGITUDE	7						
(list)	Degrees	Minutes	Seconds	Degree	38	Minutes	Se	conds	RI	CEIVI	NG WA	TER (r	iame)
Reference													
Attachment I.A													
					700000		5000000000			200000000000000000000000000000000000000			**************************************
II. FLOWS, SO	URCES OF P	OLLUTION	, AND TREA	TMENT	TE(<u> EHNOLOGI</u>	ES						
A. Attach a line wastewater to													

- wastewater to the efficient, and treatment units labeled to correspond to the more detailed descriptions in item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

OUTFALL NO.	OPERATION(S) CONTRIBU	ITING FLOW	TREATMI	ENT
(list)	Operation (list)	Avg/Design Flow (include units)	Description	List Codes from Table C-1
Reference Attachment II.A				
	S Co15		ion flow houd on 10 was 24 h	

^{*}Normal pool based on field measurements.

I. Outfall Location Permit No. 836-0351

OUTFALL		LATITUDE			LONGITUDE		
NO.	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	RECEIVING WATER
SW-1	37	38	30	82	41	43	Merritt Branch
1	37	38	45	82	41	56	Merritt Branch
2	37	38	42	82	41	49	Merritt Branch
3	37	38	38	82	41	42	Merritt Branch
4	37	38	46	82	41	35	Merritt Branch
5	37	38	45	82	41	25	Merritt Branch
6	37	38	42	82	41	1.8	Merritt Branch
7	37	38	35	85	41	21	Merritt Branch
8	37	38	32	82	41	3.0	Merritt Branch
9	37	38	25	82	41	36	Merritt Branch

II. Flows, Sources of Pollution, and Treatment Technologies

Permit No. 836-0351

	OPERATION(S) CONTRIBUT	ING FLOW	TREATMENT	
OUTFALL NO. (list)	Operation (list)	Average/Design Flow (include units)	Description	List Codes from Table C-1
SW-1	Surface Monitoring Point	1.42 cfs.	Discharge to Surface Water	4-A
1	Sediment Control Pond	11.73 cfs.	Detention for Settling	1-U
2	Sediment Control Pond	13.91 cfs.	Detention for Settling	1-U
3	Sediment Control Pond	6.87 cfs.	Detention for Settling	1-U
4	Sediment Control Pond	174.89 cfs.	Detention for Settling	1-U
5	Sediment Control Pond	38.57 cfs.	Detention for Settling	1-U
6	Sediment Control Pond	34.35 cfs.	Detention for Settling	1-U
7	Sediment Control Pond	29.36 cfs.	Detention for Settling	1-U
8	Sediment Control Pond	11.09 cfs.	Detention for Settling	1-U
9	Sediment Control Pond	10.76 cfs.	Detention for Settling	1-U

Design flow based on 10 year-24 hour storm event

NUMBER (OPERATIONS ONTRIBUTING FLOW	FREQU Days Per Week	ENCY Months Per	Flow (in m		FLOW Total v (specify w	olume ith units)	Duration (in days)
(list)	(list)	(specify	Year (specify Lo	ong-Term	Maximum	Long-Term	Maximum	
		average)	average) .	Average	Daily	Average	Daily	
MAXIMIM	PRODUCTION							
			and has EDA a		= 204 -£th- C	loos Water Act		naility?
	ent guideline limit					iean water Act	appry to your is	icinty?
	Yes (Complete Ite	m III-B) List	effluent guidel	ine categor	у:			
	No (Go to Section	IV)						
Are the limita	tions in the applica	able effluent	guideline expre	essed in terr	ns of productio	n (or other mea	sures of operati	on)?
	Yes (Complete Ite			To (Go to Se				
	red "Yes" to Iten pressed in the term							
			QUANTITY				Affected O	
uantity Per Da				ition, Prod	uct, Material,	Etc.	(list outfall n	
				(spe	cify)			
							10. 1 . 1 1 . 1010100.00101000000000000	000000000000000000000000000000000000000
MADDAM	ANNUE							
Are you now	required by any							
Are you now upgrading, or	required by any operation of wa	stewater equ	ipment or pra	ctices or a	ny other envi	onmental prog	rams which m	ay affect th
Are you now upgrading, or discharges de	required by any	stewater equ plication? Th	ipment or pra is includes, bu	ctices or a it is not lin	ny other envir nited to, permi	onmental prog	rams which m Iministrative or	ay affect th
Are you now upgrading, or discharges de orders, enforc	required by any operation of was scribed in this app	stewater equiplication? The schedule letter	ipment or pra is includes, bu ers, stipulation	ctices or a at is not lin as, court ord	ny other envir nited to, permi	onmental prog t conditions, as r loan condition	rams which m Iministrative or	ay affect th
Are you now upgrading, or discharges de orders, enforc	required by any operation of was scribed in this appearent compliance (Complete the	stewater equiplication? The schedule letter	ipment or pra is includes, bu ers, stipulation	ctices or a at is not lin as, court ord	ny other environited to, permiers and grant o	onmental prog t conditions, as r loan condition	rams which m Iministrative or	ay affect th
Are you now upgrading, or discharges de orders, enforc	required by any operation of was scribed in this appearent compliance are (Complete the OF CONDITION	stewater equiplication? The schedule letter following ta	ipment or pra is includes, but ers, stipulation ble) ED OUTFALLS	ctices or a ut is not lin us, court ord No BR	ny other envinited to, permiers and grant o	onmental prog t conditions, as r loan condition	grams which madministrative or as.	ay affect the enforcement of the
Are you now upgrading, or discharges de orders, enforc	required by any operation of was scribed in this appearent compliance are (Complete the OF CONDITION	stewater equiplication? The schedule letter following ta	ipment or pra is includes, but ers, stipulation ble)	ctices or a ut is not lin us, court ord No BR	ny other envinited to, permiers and grant o	onmental prog t conditions, as r loan condition -B)	grams which m dministrative or as.	ay affect the enforcement of the
Are you now upgrading, or discharges de orders, enforc	required by any operation of was scribed in this appearent compliance are (Complete the OF CONDITION	stewater equiplication? The schedule letter following ta	ipment or pra is includes, but ers, stipulation ble) ED OUTFALLS	ctices or a ut is not lin us, court ord No BR	ny other envinited to, permiers and grant o	onmental prog t conditions, as r loan condition -B)	grams which madministrative or as.	ay affect th

FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

A,	space provided			- Annotate the outfall number in the 18.
D.	which you know or have reas	ny of the pollutants (refer to SAR son to believe is discharged or may you believe it to be present and re	ay be discharged from any outfal	1. For every pollutant you list,
	POLLUTANT	SOURCE	POLLUTANT	SOURCE
VI.	POTENTIAL DISCHARG	ES NOT COVERED BY ANA	LYSIS	
A.	produce over the next 5 year	1 V-C a substance or a component is as an immediate or final product the pollutants below)		
В.		t your raw materials, processes, of turing the next 5 years exceed two		
C.		tants which you anticipate will b		bility at this time the sources and ver the next 5 years. Continue on

3

Revised June 1999

V. INTAKE AND EFFLUENT CHARACTERISTICS

	dge of or reason to believe that any biolo ng water in relation to your discharge w		toxicity has been made on any or y
☐ Yes (Id	entify the test(s) and describe their purp	ooses below)	No (Go to Section VIII)
ere any of the analyses Yes (lis	reported in Item V performed by a cont it the name, address, and telephone num	ber of, and pollutants	rm? No (Go to Section IX)
ere any of the analyses Yes (lis	reported in Item V performed by a cont	ber of, and pollutants below) TELEPHONE	No (Go to Section IX) POLLUTANTS
ere any of the analyses Yes (lis ar	reported in Item V performed by a cont at the name, address, and telephone num nalyzed by each such laboratory or firm ADDRESS	ber of, and pollutants below) TELEPHONE (Area code & number)	No (Go to Section IX) POLLUTANTS ANALYZED (list)
ere any of the analyses Yes (lis	reported in Item V performed by a cont at the name, address, and telephone num nalyzed by each such laboratory or firm	ber of, and pollutants below) TELEPHONE	No (Go to Section IX) POLLUTANTS
ere any of the analyses Yes (list an NAME palachian States	reported in Item V performed by a cont st the name, address, and telephone num halyzed by each such laboratory or firm ADDRESS P.O. Box 520	ber of, and pollutants below) TELEPHONE (Area code & number)	POLLUTANTS ANALYZED (list) pH, Suspended Solids, Sulfate, Manganese,
ere any of the analyses Yes (list an NAME palachian States	reported in Item V performed by a cont st the name, address, and telephone num halyzed by each such laboratory or firm ADDRESS P.O. Box 520	ber of, and pollutants below) TELEPHONE (Area code & number)	POLLUTANTS ANALYZED (list) pH, Suspended Solids, Sulfate, Manganese,
ere any of the analyses Yes (list an NAME palachian States	reported in Item V performed by a cont st the name, address, and telephone num halyzed by each such laboratory or firm ADDRESS P.O. Box 520	ber of, and pollutants below) TELEPHONE (Area code & number)	POLLUTANTS ANALYZED (list) pH, Suspended Solids, Sulfate, Manganese,
ere any of the analyses Yes (list an NAME palachian States	reported in Item V performed by a cont st the name, address, and telephone num halyzed by each such laboratory or firm ADDRESS P.O. Box 520	ber of, and pollutants below) TELEPHONE (Area code & number)	POLLUTANTS ANALYZED (list) pH, Suspended Solids, Sulfate, Manganese,

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):
CLARK PERGREM, PRESIDENT	606-886-0611
SIGNATURE CLANG PANGALLA	DATE Merch 24, 2000

PLEASE PROOF TYPE IN THE UNSHADED AREAS ONLY. You may report soon all of this information on separate sheets (use the same format) instead completing these pages. (See instructions)

V. INTAKE AND	EFFLUENT CI	HARACTERIS	FICS (Continued)	rom page 3 of Fo	rm C)					OUTFALL NO.		
Part A - You must	provide the resul	ts of at least one	analysis for every	oollutant in this ta 2. EFFLUENT		le for each out	fall. See instruction	ns for additional detail 3. UNI (specify if	TS		4. INTAKE (optional)	
1. POLLUTANT	a. Maximun	1 Daily Value	b. Maximum (if ava	30-Day Value ilable)	e, Long-Term / (if availa		d. No. of	a. Concentration	h. Mass	a. Long-Term		b.
	(1) Concentration	n (2) n Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	No of Analyses
a. Biochemical Oxygen Demand (BOD)												
b. Chemical Oxygen Demand (COD)												
c. Total Organic Carbon (TOC)												
d. Total Suspended Solids (TSS)	14.0											
e. Ammonia (as N)	-	-										
f. Flow (in units of MGD)	VALUE		VALUE		VALUE				MGD	VALUE		
g. Temperature (winter)	VALUE VALUE				VALUE				°c	VALUE		
h. Temperature (summer)	VALUE VALUE			VALUE				°c	VALUE			
i. pH	MINIMUM 7.04	MAXIMUM	MINIMUM	MAXIMUM				STAN	DARD UNITS			

Revised June 1999

Part B - In the M. "X" column, place an "X" in the Believed Present column for each pollutant you know or excason to believe is present. Place an "X" in the Believed Absent column for each pollutant, you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT		l. K"X"			EF	3. FLUENT				4. UNITS		INTAF	6. Œ (option	al)
AND CAS NO.	a.	b.	a, Maximum Da	ily Value	b. Maximum 3 Value (if avail	0-Day	c. Long-Tern Value (if ava		d. No. of	a.	b.	a. Long-Term Value		b. No. of
(if available)	Believed Present	Believed Absent	(1) Concentration	(2) Mass	(I) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses	Concentration	Mass	(1) Concentration	(2) Mass	Analyses
a. Bromide (24959-67-9)		х												
b. Bromine Total Residual		X												
c. Chloride		х												
d. Chlorine, Total Residual		х												
e. Color		Х												
f. Fecal Coliform		х												
g. Fluoride (16984-48-8)		X												
h. Hardness (as CaCO ₃)	Х		428.37											
i. Nitrate – Nitrite (as N)		х							 					
j. Nitrogen, Total Organic (as N)		x												
k. Oil and Grease		X												
1. Phosphorous (as P), Total 7723-14-0		x												
m. Radioactivity			 		later en grone en en de per general de la grone de l		Majorija ir		i la construencia de la granda d				100	
(1) Alpha, Total		х												
(2) Beta, Total		X												
(3) Radium Total		x												
(4) Radium, 226, Total		х												

Part B - Continu	ed													
1. POLLUTANT		2. K "X"			EF	3. FLUENT				4. UNITS		INTAK	5. E (option	asl)
And CAS NO.	a.	b.	a. Maximum Dai	ly Value	b. Maximum 3 Value (if avai		c. Long-Tern Value (if ava		d. No. of	a.	b.	a. Long-Term Avg	. Value	b. No. of
(if available)	Believed Present	Believed Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses	Concentration	Mass	(1) Concentration	(2) Mass	Analyses
n. Sulfate (as SO ₄) (14808-79-8)	X		357											
o. Sulfide (as S)		х												
p. Sulfite (as SO ₄) (14286-46-3)		х												
q. Surfactants		х												
r. Alaminum, Total (7429-90)		х												
s. Barium, Total (7440-39-3)		x		8 (1988)								18.		
t. Boron, Total (7440-42-8)		х												
u. Cobalt, Total (7440-48-4)		x												
v. Iron, Total (7439-89-6)	х		<0.03											
w. Magnesium Total (7439-96-4)	100	x												
x. Molybdenum Total (7439-98-7)		х												
y. Manganese, Total (7439-96-6)	X		0.05											
z. Tin, Total (7440-31-5)		X												
aa. Titanium, Total (7440-32-6)		х												

Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the Testing Required column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Mark "X: in the Believed Absent column for each pollutant you believe to be absent. If you mark citter the Testing Required or Believed Present columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part, please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

L.		2. MARK "X"		is for additional dec			3. LUENT				4. UNITS		INTAK	5. E (option:	al)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b, Believed	a. Maximum Daily	Value	b, Maximum 3 Value (if avail	0-Day	c. Long-Term Value (if avail		d. No. of	a. Concentration	b. Mass	a. Long-Ferm Av		b. No. of Analyses
(if available)	Required	Present	Absent	(I) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
METALS, CYA	NIDE AND T	OTAL PHE	NOLS			district the second second									***************************************
1M. Antimony Total (7440-36-0)	x			<0.002											
2M. Arsenic, Total (7440-38-2)	x		-	<0.001											
3M. Beryllium Total (7440-41-7)	X			<0.005											
4M. Cadmium Total (7440-43-9)	x			<0.005											39
5M. Chromium Total (7440-43-9)	х			0.001											
6M. Copper Total (7550-50-8)	х			<0.01											
7M. Lead Total (7439-92-1)	x			<0.05											
8M. Mercury Total (7439-97-6)	x			<0.0002											
9M. Nickel, Total (7440-02-0)	x			<0.005											
10M. Selenium, Total (7782-49-2)	x			<0.002											
11M. Silver, Total (7440-28-0)	Х			<0.01											

l.		MARK "X"				EFF	J. LUENT	T.		T	UNITS			E (optiona	il)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily	y Value	b. Maximum 3 Value (if avail	0-Day lable)	c. Long-Teru Value (if avai	ı Avg. lable)	d. No. of	a. Concentration	b. Mass	a. Long-Term Av	g Value	b. No. of
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	Analyses
METALS, CYAN	NIDE AND T	OTAL PHE	NOLS (Con	tinued)											
12M. Thallium, Total (7440-28-0)	x			<0.05											
13M. Zinc, Total (7440-66-6)	x			<0.005											
14M. Cyanide, Total (57-12-5)			Х												
15M. Phenols, Total			X												
DIOXIN		<u> </u>	1 28			}	1000		- 33	North Color					in the second
2,3,7,8 Tetra- chlorodibenzo, P, Dioxin (1784-01-6)			x	DESCRIBE RES	ULTS:										
GC/MS FRACTI	ON-VOLA	TILE COM	POUNDS												
1V. Acrolein (107-02-8)			x												
2V. Acrylonitrile (107-13-1)			x												
3V. Benzene (71-43-2)			х												
5V. Bromoform (75-25-2)			Х												
6V. Carbon Tetrachloride (56-23-5)			x												
7V. Chloro- benzene (108-90-7)			x												2.5
8V. Chlorodibro- momethane (124-48-1)			x												
L N== 1, 12, 24			1												

Part C - Continue

Part C - Continu	ed														
1.		2. MARK "X"					3. LUENT				4. UNITS		INTAK	5. E (optiona	
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily	Value	b. Maximum 3 Value (if avai		c. Long-Term Value (if avai		d. No. of	a. Concentration	b. Mass	a. Long-Term Av	g Value	b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(I) Concentration	(2) Mass	
9V. Chloroethane (74-00-3)			X												
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			x												
12V. Dichloro- bromomethane (75-71-8)			x												
14V. 1,1- Dichloroethane (75-34-3)			x												
15V. 1,2- Dichloroethane (107-06-2)			х												
16V. 1,1- Dichlorethylene (75-35-4)			x												
17V. 1,2-Di- chloropropane (78-87-5)			х												
18V. 1,3- Dichloropro- pylene (452-75-6)			х												
19V. Ethyl- benzene (100-41-4)			x												
20V. Methyl Bromide (74-83-9)			x												

Part C - Continu	ed														
1.		2. MARK "X"				EFF	3. LUENT				4. UNITS		INTAK	5. E (optiona	d)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily		b. Maximum 3 Value (if avai	lable)	c, Long-Term Value (if avail	able)	d. No. of	a. Concentration	b. Mass	a. Long-Term Av		b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
21V. Methyl Chloride (74-87-3)			X												
22V. Methylene Chloride (75-00-2)			X												
23V. 1,1,2,2- Tetrachloro- ethane (79-34-5)			· X												
24V. Tetrachloro- ethylene (127-18-4)			x												
25V. Toluene (108-88-3)			x												
26V. 1,2-Trans- Dichloro- ethylene (156-60-5)			x												
27V. 1,1,1-Tri- chloroethane (71-55-6)			X												
28V. 1,1,2-Tri- chloroethane (79-00-5)			x												
29V. Trichloro- ethylene (79-01-6)			X												
30V. Vinyl Chloride (75-01-4)			X												

Part C - Continu	ed														
		2.				Mor	3. LUENT				4.		TRAIN A FA	5.	
I. POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Dail	v Value	b. Maximum 3 Value (if avai	0-Day	c, Long-Term Value (if avai		d. No. of	units a. Concentration	b. Mass	Long-Term Av	E (options g Value	b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
GC/MS FRACTI	ON - ACID	COMPOUN	DS	L											
1A. 2-Chloro- phenol (95-57-8)			х							2.006					
2A. 2,4- Dichlor- Orophenol (120-83-2)			х												
3A. 2,4-Dimeth- ylphenol (105-67-9)			x												
4A. 4,6-Dinitro- o-cresol (534-52-1)			x												
5A. 2,4-Dinitro- phenol (51-28-5)			x												
6A. 2-Nitro- phenol (88-75-5)	:		х												
7A. 4-Nitro- phenol (100-02-7)			X												
8A. P-chloro-m- cresol (59-50-7)															
9A. Pentachloro- phenol (87-88-5)			x												
10A. Phenol (108-05-2)			x												
11A. 2,4,6-Tri- chlorophenol (88-06-2)		2	x												
GC/MS FRACT	ON – BASE/	NEUTRAL		NDS											100000
1B. Acena- phthene (83-32-9)			X												

Part C - Continu	ied														
1,		2. MARK "X"				EFF	3. LUENT				4. UNITS		INTAK	5. E (option:	al)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Dail	/ Value	b, Maximum 3 Value (if avai	0-Day lable)	e. Long-Term Value (if avail	Avg.	d. No. of	a. Concentration	b. Mass	a. Long-Term Av	g Value	b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	1
GC/MS FRACTI	ON - BASE/	NEUTRAL	COMPOUN							,	I				
2B. Acena- phtylene (208-96-8)			X												
3B. Anthra- cene (120-12-7)			x												
4B. Benzidine (92-87-5)			x												
5B. Benzo(a)- anthracene (56-55-3)			x												Carre
6B. Benzo(a)- pyrene (50-32-8)			x												
7B. 3,4-Benzo- fluoranthene (205-99-2)			x												
8B. Benzo(ghl) perylene (191-24-2)			x										a 18		
9B. Benzo(k)- fluoranthene (207-08-9)			X												
10B. Bis(2- chlor- oethoxy)- methane (111-91-1)			X												
11B. Bis (2-chlor- oisopropyl)- Ether			х												
12B. Bis (2-ethyl- hexyl)- phthalate (117-81-7)			x												

Part C - Continu	ed														
l.		2. MARK "X"				EFF	3. LUENT				4, UNITS		INTAL	5. Œ (optiona	n
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily		b. Maximum 3 Value (if avail	0-Day able)	c. Long-Tern Value (if avai	lable)	d. No. of	a. Concentration	b. Mass	a. Long-Term Av	g Value	b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
GC/MS FRACT	ON - BASE/	NEUTRAL	COMPOUN	NDS (Continued)											
13B. 4-Bromo- phenyl Phenyl ether (101-55-3)			х		·										
14B. Butyl- benzyl phthalate (85-68-7)			х												
15B. 2-Chloro- naphthalene (7005-72-3)			X												
16B. 4-Chloro- phenyl phenyl ether (7005-72-3)			х												
17B. Chrysene (218-01-9)			x												
18B. Dibenzo- (a,h) Anthracene (53-70-3)			x												
19B. 1,2- Dichloro- benzene (95-50-1)			х												
20B. 1,3- Dichloro- Benzene (541-73-1)			x												
21B. 1,4- Dichloro- benzene (106-46-7)			Х												
22B. 3,3- Dichloro- benzidene (91-94-1)			x		: .										
23B. Diethyl Phthalate (84-66-2)			X												

Part C - Continu	red														
1.		2. MARK "X"				FDF	3. LUENT				4. UNITS		INTAK	5. E (optiona	n
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily	/ Value	b. Maximum 3 Value (if avail	0-Day	c. Long-Term Value (if avail		d. No. of	a. Concentration	h. Mass	a. Long-Term Avg		b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(I) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
GC/MS FRACT	ION – BASE/	NEUTRAL	COMPOUN		1124655	Contentiation	i iranga	Concentiation	3784630	1		l-control	, concentration	174433	
24B. Dimethyl Phthalate (131-11-3)			X												
25B. Di-N- butyl Phthalate (84-74-2)			x												
26B. 2,4-Dinitro- toluene (121-14-2)		,	х	nasta n											
27B. 2,6-Dinitro- toluene (606-20-2)			х												
28B. Di-n-octyl Phthalate (117-84-0)			х												
29B. 1,2- diphenyl- hydrazine (as azonbenzene) (122-66-7)			Х												
30B. Fhioranthene (208-44-0)			Х												
31B. Fluorene (86-73-7)			x												
32B. Hexachloro- benzene (118-71-1)			X												
33B. Hexachloro- butadiene (87-68-3)			Х												
34B. Hexachloro- cyclopenta- diene (77-47-4)			X												

Part C - Continu	ed														
1.	1	2. MARK "X"				EFF	3. LUENT				4. UNITS		INTAK	5. E (optiona	J)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily	A71	b. Maximum 3		c. Long-Term		d.	a.	ъ.	a. Long-Term Av	g Value	b. No. of
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	Value (if avail (1) Concentration	(2) Mass	Value (if avail (1) Concentration	(2) Mass	No. of Analyses	Concentration	Mass	(1) Concentration	(2) Mass	Analyses
GC/MS FRACTI	ON - BASE/	NEUTRAL	COMPOUN		Haven recording and			L. Esseries Esseries		P	k.			1	
35B. Hexachlo- roethane															
(67-72-1)			X												
36B. Indneo- (1,2,3-oc)- Pyrene (193-39-5)			x		-										
37B. Isophorone (78-59-1)			X												
38B. Napthalene (91-20-3)			x												
39B. Nitro- benzene (98-95-3)			Х												
40B. N-Nitroso- dimethyl- amme (62-75-9)			х												
41B. N-nitrosodi-n- propylamine (621-64-7)			x												
42B. N-nitro- sodiphenyl- amine (86-30-6)			х												
43B. Phenan- threne (85-01-8)		=	X												
44B. Pyrene (129-00-0)			X			. i									
45B. 1,2,4 Tri- chloro- benzene (120-82-1)			х												

Part C Continu	ed														
1.		2. MARK "X"				EFF	3. LUENT				4. UNITS		INTAK	5. E (optiona	a
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Dail	y Value	b, Maximum 3 Value (if avai	0-Day	e, Long-Term Value (if avail	Avg.	d. No. of	a. Concentration	b. Mass	a. Long-Term Avg		b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
GC/MS FRACTI	ON – PESTI	CIDES	100000000000000000000000000000000000000		1		1 144400	Concentration	1124133	ı	l	1	Concentation	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1P. Aldrin (309-00-2)			х												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (58-89-9)			х												
4P. gamma-BHC (58-89-9)			Х												
5P. δ-BHC (319-86-8)			X						1047						
6P. Chlordane (57-74-9)			х												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			x												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X			:									
11P. α- Endosulfan (115-29-7)			x												
12P. β- Endosulfan (115-29-7)			x					·						·	
13P. Endosulfan Sulfate (1031-07-8)			x												
14P. Endrin (72-20-8)			Х												

Part C - Continu	ed														
1.		2. MARK "X"	,			EFF	3. LUENT				4. UNITS		INTAK	5. E (optiona	
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Dail	Value	b. Maximum 3 Value (if avai		e. Long-Term Value (if avail		d. No. of	a. Concentration	b. Mass	a, Long-Term Av	g Value	b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses	Concentration	Mass	(I) Concentration	(2) Mass	Anaiyses
GC/MS FRACTI	ON – PESTI	CIDES	han seen and read to see	1	hodiomen.		4	p		parameter and a		CONTRACTOR CONTRACTOR	p. Comedant and a	C. STORMAN	kana estados con
15P. Endrin Aldehyde (7421-93-4)			X											·	
16P Heptachlor (76-44-8)			X												
17P. Heptaclor Epoxide (1024-57-3)			X											-	
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			х												100
20P. PCB-1221 (11104-28-2)			x												
21P. PCB-1232 (11141-16-5)			x												
22P. PCB-1248 (12672-29-6)			x												
23P. PCB-1260 (11096-82-5)			x												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X									-		-	



PO Box 520 Shelbiana, KY 41562

Pike Technical Services, Inc. 183 Tollage Creek Pikeville, KY 41501 Date Received
Date Reported
Order Number

11/03/08 12/22/08 2008-11394

ATTN: Tom Bow or Bill Justice

TEST DESCRIP	ΓΙΟΝ	RESULT	UNITS	METHOD	MDL	DATE TECH
Fraction Sample I.D Date Sampled	2008-1139 Matt/Co 83 11/03/2008	36-9027				
Hardness Antimony, Total Arsenic, Total Beryllium, Total Cadmium, Total Chromium, Total Copper, Total Lead, Total Nickel, Total Selenium, Total Silver, Total		393.89 <0.002 <0.001 <0.005 <0.005 <0.001 <0.01 <0.05 <0.005 <0.005 <0.005 <0.005 <0.005	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	SM 2340B SM 3113 B SM 3113 B SM 3111 D SM 3111 B SM 3111 B SM 3111 B SM 3111 B SM 3111 B SM 3111 B SM 3111 B	0.02 0.002 0.001 0.005 0.005 0.001 0.01 0.05 0.005 0.002 0.01	12/15/2008 SC 12/20/2008 SC 12/18/2008 SC 12/18/2008 SC 12/15/2008 SC 12/15/2008 SC 12/15/2008 SC 12/15/2008 SC 12/15/2008 SC 12/15/2008 SC 12/15/2008 SC 12/15/2008 SC 12/15/2008 SC
Thallium, Total Zinc, Total		< 0.005	mg/l mg/l	SM 3111 B	0.005	12/15/2008 SC
Fraction Sample I.D Date Sampled	2008-1139 Matt/Co 8 11/03/200	36-0351NW				
Hardness Antimony, Total Arsenic, Total Beryllium, Total Cadmium, Total Chromium, Total Chromium, Total Chopper, Total Lead, Total Nickel, Total Selenium, Total Silver, Total Thallium, Total		428.37 <0.002 <0.001 <0.005 <0.005 <0.001 <0.05 <0.005 <0.002 <0.01 <0.05	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	SM 2340B SM 3113 B SM 3111 D SM 3111 D SM 3111 B SM 3111 B SM 3111 B SM 3111 B SM 3111 B SM 3111 B SM 3111 B	0.02 0.002 0.001 0.005 0.005 0.001 0.01 0.05 0.005 0.002 0.01 0.05 0.005	12/15/2008 SC 12/20/2008 SC 12/18/2008 SC 12/18/2008 SC 12/15/2008 SC
Zinc, Total		< 0.005	mg/l	SM 3111 B	0.003	12/13/2000 00

I DO HEREBY ATTEST THAT THIS IS A TRUE AND EXACT COPY OF THE ORIGINAL DOCUMENT

NOTARY PUBLIC 1 11

MY COMMISSION EXPIRES, STATE OF COMMISSION.....

KENTUCKY

Submitted By;
Submitted By;
Submitted By;



APPALACHIAN STATES ANALYTICAL, L.L.C.

PO Box 520 Shelbiana, KY 41562

Pike Technical Services, Inc. 183 Tollage Creek Pikeville, KY 41501

ATTN: Tom Bow or Bill Justice

Date Received 12/11/08 Date Reported 12/23/08 Order Number 2008-11400

TEST DESCRIE	TION	RESULT	UNITS	METHOD MDL	DATE TECH
Fraction Sample I.D Date Sampled	2008-1140 Matt/Co 8 12/11/200	36-9027			
Cyanide, Total Phenols Mercury, Total		<0.01 <0.02 <0.0002	mg/l mg/l mg/l	SM 4500CN-C,E0.01 EPA 420.1, Hach08027 SM 3112 B 0.0002	
Fraction Sample I.D Date Sampled	2008-1140 Matt/Co 8: 12/11/2008	36-0351			
Cyanide, Total Phenols Mercury, Total		<0.01 <0.02 <0.0002	mg/l mg/l mg/l	SM 4500CN-C,E0.01 EPA 420.1, Hach08047 SM 3112 B 0.0002	12/17/2008 SC 12/20/2008 SC 12/13/2008 TT

Submitted By:
Shann Mapm

I DO HEREBY ATTEST THAT THIS IS A TRUZ AND EXACT COPY OF THE ORIGINAL DOCUMENT

NOTARY PUBLIC

MY COMMISSION EXPIRES STATE OF COMMISSION

KENTUCKY



PO Box 520 Shelbiana, KY 41562

Pike Technical Services, Inc. 183 Tollage Creek Pikeville, KY 41501
 Date Received
 11/03/08

 Date Reported
 11/05/08

 Order Number
 2008-10035

ATTN: Tom Bow or Bill Justice

TEST DESCRIPT	пом	RESULT	UNITS	METHOD	MDL	DATE T	ECH
Fraction Sample I.D Date Sampled	2008-100350 Matt/Co 836 11/03/2008						
Flow Total Suspended Iron, Total Alkalinity Acidity Manganese, Tota Specific Conducts Sulfate Temperature pH, Lab		NDP 133 <0.03 169 <1 <0.01 727 299 NDP 7.24	cfs mg/l mg/l mg/l mg/l mg/l umhos/cm mg/l C std	SM 2540D SM 3111 B EPA 310.2 SM 2310B SM 3111 B SM 2510 B SM 426 C SM 2550 B SM 4500 H+ -	1 0.03 1 1 0.01 1 1 0.4 B 0.01	11/03/2008 11/04/2008 11/04/2008 11/04/2008 11/04/2008 11/05/2008 11/05/2008 11/04/2008 11/03/2008 11/04/2008	JKB SC TT TT SC TV TT CLT
Fraction Sample I.D Date Sampled	2008-100350 Matt/Co 836 11/03/2008						
Flow Total Suspended Iron, Total Alkalinity Acidity Manganese, Tota Specific Conducts Sulfate Temperature pH, Lab	1	NDP 14 <0.03 150 <1 0.05 840 357 NDP 6.82	cfs mg/l mg/l mg/l mg/l mg/l unthos/cm mg/l C std	SM 2540D SM 3111 B EPA 310.2 SM 2310B SM 3111 B SM 2510 B SM 426 C SM 2550 B SM 4500 H+ -	1 0.03 1 1 0.01 1 1 0.4 B 0.01	11/03/2008 11/04/2008 11/04/2008 11/04/2008 11/04/2008 11/05/2008 11/04/2008 11/04/2008 11/04/2008	JKB SC TT TT SC TV TT CLT

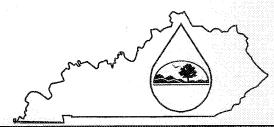
Submitted By: Chapman

AND EXACT COPY OF THE ORIGINAL DOSUMENT

OUT OF COMMISSION EXPIRES [-//-/2

STATE OF COMMISSION

KPDES FORM HQAA



Kentucky Pollutant Discharge Elimination System (KPDES)

High Quality Water Alternative Analysis

The Antidegradation Implementation Procedures outlined in 401 KAR 5:030, Section 1(3)(b)5 allows an applicant who does not accept the effluent limitations required by subparagraphs 2 and 3 of 5:030, Section 1(2)(b) to demonstrate to the satisfaction of the Environmental and Public Protection Cabinet that no technologically or economically feasible alternatives exist and that allowing lower water quality is necessary to accommodate important economic or social development in the area in which the water is located. The approval of a POTW's regional facility plan pursuant to 401 KAR 5:006 shall demonstrate compliance with the alternatives analysis and socioeconomic demonstration for a regional facility. This demonstration shall also include this completed form and copies of any engineering reports, economic feasibility studies, or other supporting documentation

Facility Name:	Matt/	Co, Inc.	KPDES NO.:	Pending KYO107778
Address:	439 N	leadows Branch	County:	Floyd
City, State, Zip	Code:	Prestonsburg, KY 41653	Receiving Water Name:	Merritt Branch

Discharge to other treatment facilities. Indicate which treatment works have been considered d provide the reasons why discharge to these works is not feasible.

Reference Attached II, Alternatives Analysis, Item 1.

2. Use of other discharge locations. Indicate what other discharge locations have been evaluated and the reasons why these locations are not feasible.

Reference Attached II, Alternatives Analysis, Item 2.

II. Alternatives Analysis - contin	rued		
. Water reuse or recycle. Provid-	e information about oppo	rtunities for water reus	e or recycle at this
facility. If water reuse or recycle is r	ot a feasible alternative a	it this facility, please in	dicate the reasons
why.			
Reference Attached II, Alterna	itives Analysis, Item 3.		
	• • • • • • • • • • • • • • • • • • •		
Alternative process or treatme	y se s		
Reference Attached II, Alterna			
: 신호품별및 프린토막 제 전환 - 10 - 10 - 10 - 10 - 10			

DEP Form -2 - Revised November 16, 2004

II. Alternatives Analysis - co	ntinued			
\				
5. On-site or subsurface disposit these options are not feasible, the	sal options. Discuss the po	otential for on-site or sul	bsurface disposal.	
	77 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7			
Reference Attached II, Alte	auves Maiysis, Hem 3			
Evaluation of any other alter hat were evaluated and provide t				
Reference Attached II, Alte				

П	III. Socioeconomic Demonstration				
ð.	State the positive and beneficial effects of th	is facility on	he existing enviro	nment or a public health problem	
	Reference Attached III, Socioeconomic D	emonstration	. Item 1.		
	1,000				
					<u> </u>
2.	2. Describe this facility's effect on the employe	ment of the ar	ea		
	Reference Attached III, Socioeconomic D	emonstration	, Item 2.		
				y proposition of the state of 	
3.	3. Describe how this facility will increase or av	oid the decre	ase of area employ	ment.	
	Reference Attached III, Socioeconomic D	emonstration	ı, Item 3.		
7					
4.	4. Describe the industrial or commercial benefit	its to the com	munity, including	the creation of jobs, the raising o	f
	additional revenues, the creation of new or a	idditional tax	bases.		
	Reference Attached III, Socioeconomic D	emonstration	ı, Item 4.		
		or .			<u> </u>
5.	5. Describe any other economic or social benef	its to the com	munity.		
	Reference Attached III, Socioeconomic D	emonstration	ı, Item 5.		
5 .					
× ′					

Ш	Socioeconomic Demonstration	ı - continued				
					Yes	No
) 6.	Will this project be likely to change me	edian household inc	ome in the county?		\boxtimes	
7.	Will this project likely change the mark			er en	\boxtimes	
	Will this project increase or decrease re				\square	П
8.						Lucel
9.	Will any public buildings be affected by) 1 <i>E</i>		
	How many households will be econom Reference Attached III, Socioeconom			? 15		
11.	How will those households be <i>econom</i> of jobs, educational opportunities, or o			e, through creation		
	Reference Attached III, Socioeconon	nic Demonstration	Item 11.			
	ALL, DOMOCCOROL					
	entralia. Para la companya di sua sultana di sua sultana di sultana di sultana di sultana di sultana di sultana di sulta					
	$\frac{1}{2} \left(\frac{1}{2} \right) $					
) <u> </u>						
1.0	Parliago america di G	al a c		Fishing O	<u>Yes</u> □	<u>No</u> ⊠
12.	Does this project replace any other me (If so describe how)	mous or sewage tre	aunem to existing fact	TIMES!		
	(12 00 appointed from)					
	Reference Attached III, Socioeconon	nic Demonstration.	, Item 12.			
						<u> [1, 1, 1]</u>
					<u>Yes</u>	<u>No</u>
13.	Does this project treat any existing sou	irces of pollution m	ore effectively?		\boxtimes	
	(If so describe how.)					
	T					
	Reference Attached III, Socioeconon	nic Demonstration	, 1tem 12.			
	•					
•						

DEP Form -5 - Revised November 16, 2004

Yes No □
<u> </u>

-6-

II. Alternative Analysis

Item 1 Alternative treatment works have been investigated. The nearest water treatment system according to the Prestonsburg Utilities is at Prestonsburg, which is approximately 8.2 miles away. It would cost approximately \$76,560 at \$40/foot to contract the installation of 1,914 feet of collection lines and another \$1,806,160 to send the discharge to the nearest treatment facility at Prestonsburg. This would be a total cost of \$1,882,720 to collect and transport the discharge to the Prestonsburg facility. A sedimentation pond would also need to be installed at the Prestonsburg facility to remove the silt from the discharges. Construction and maintenance of this sedimentation would cost approximately \$40,000. Total costs to collect, transport and treat the discharges in this manner would exceed \$1,922,720.

Another alternative would consist of transporting the discharge by trucks. It would cost approximately \$76,560 at \$40/foot to contract the installation of 900 feet of collection lines to the storage tanks. For a 25 year, 6 hour storm event the runoff from the permit area is approximately 4,580,793 gallons per hour. The client would have to purchase 180 storage tanks for the 6 hour storm event which would cost approximately \$23,212,080 at \$128,956 pre 150,000 gallon storage tank. To transport the discharge to the Prestonsburg facility the client would have to purchase an 8,000 gallon tank truck. The tank truck would cost approximately \$130,000 and would take 1 hour to fill. The tank truck would have to make 3,375 trips to drain the discharge from the 25 year, 6 hour storm event. Total costs to collect and transport the discharges in this manner would exceed \$23,418,640.

Item 2 Merritt Branch is the only creek which can directly receive the discharge from this operation along Route 1428. As stated previously, to collect and gather the discharge from this area would cost \$76,560 at \$40.00 a foot for piping. This cost is exclusive of the \$1,882,720 to transport to Prestonsburg.

Another alternative would be to pipe the water to a non-supporting watershed. According to the summary of 2006 305(b) List of Impaired Waters the nearest non-supporting watershed is Buffalo Creek. It would cost approximately \$76,560 at \$40/foot to contract the installation of 1,914 feet of collection lines and another 815,600\$ to send the discharge to Johns Creek. This would be a total cost of \$892,160 to collect and transport the discharge to Buffalo Creek. To transport the discharge to Buffalo Creek the client would have to purchase a high powered pump to lift the water 720 vertical feet. One pump would cost approximately \$40,000 and can lift approximately 100 vertical feet. You would have to purchase 7 pumps and place them every 100 feet to transport the discharge to Buffalo Creek costing \$280,000. Total costs to collect, transport and pump the discharges in this manner would exceed \$1,172,160.

The transporting of water to Buffalo Creek would have a negative impact on the watershed. Causing more detrimental environmental impact that is not needed. Flooding will occur within the watershed destroying homes, property, roads and natural resources. The streams within a reasonable distance empty into the Levisa Fork. This added expense as an alternative is not viable since Levisa will eventually receive the discharges anyway.

Item 3 Water could and will be reused for dust suppression at the project site; however, the amount used is minimal when compared to the total discharge. The total drainage area is approximately 94 acres with a discharge of 65,077 gallons per minute or approximately 3,904,666 gallons per hour.

While a portion of the water could be used for dust suppression, it is generally required only during dry times when discharges are low or non-existent. Again, the amount of water used would be minimal. A water truck can carry approximately 5,000 gallons of water. Roads, ect. are generally watered twice a day during dry times. This equates to no other water is needed for recycling or reuse with the operation. You would have approximately 23,417,996 gallons of excess water that can't be reused.

- Item 4 The cost of purchasing and installing a small package plant at the site would be approximately \$50,000 and the collection system of 36,000. The cost to operate and maintain this facility 24 hours a day, 7 days a week would be approximately \$11,500/ month. The plant site could be limited to an acre, but the holding facility could be as large as 10% of the drainage area or larger, since the runoff has to be treated in its entirety. The cost of constructing such a facility would run in the hundreds of thousands of dollars, since it would be required to meet all MSHA standards. The removal cost of the plant might well be at its salvage price, however the cost of eliminating the embankment and void of the holding facility would again run in the hundred thousand dollar range.
- Item 5 The only way to store the discharge on site is with a pond. To maintain the water on site without a discharge would require one very large pond. The pond would have to be built in the stream thus impacting a vast portion of the stream and causing a more detrimental environmental impact that is not needed. It is nearly impossible to construct a facility that would never discharge. The cost of this structure would cost \$1,000,000 for construction and stream mitigation.
- Item 6 Other alternatives reviewed include reducing the standards for discharge or avoiding the project altogether.

By reducing the water quality limits, the project would experience increases in costs and additional time spent. A larger in-stream pond would have to be constructed which would have a substantial negative impact on stream and could cost as much as \$1,000,000 for construction and stream mitigation of each. Large volumes of water would need to be stored within this structure producing more danger if a structural failure were to occur. The costs of removing these ponds would also be much greater (approximately \$100,000 per pond).

Another option to consider is to avoid the project altogether. This would have many negative affects on the area including reduction of employment and the loss of valuable coal that currently keeps Kentucky's electric costs the lowest in the nation. Avoiding this operation would not only affect coal miners but also the many businesses that provide support to the mining industry. This would eliminate the 15 new jobs. It would cancel indirect affects on approximately 50 local suppliers and their families. It would do away with the 0.5 millions dollars of coal severance taxes and the income taxes which come directly into both the state and local economy.

III. Socioeconomic Demonstration

Item 1 This operation will provide sediment control facilities in areas where there have been previous mining. Approximately 60 acres of the proposed permit area has been previously impacted by pre-law mining and 60 acres of the proposed permit area has been previously impacted by logging. This facility will control the discharge of an area covering approximately 46.38 acres.

The movement of sediment is mostly unabated within the area but the proposed mining operation will create and maintain sediment control structures in the form of ponds. These will treat existing problems and reduce or eliminate their effect on the environment.

- Item 2 The proposed mine would be a new mine with all new personnel needed for operation. This mining operation would provide employment for approximately 15 men. These jobs provide higher wages than other industry jobs in Floyd County. The average weekly wage in the mining industry for Floyd County is \$778.76. The average weekly wage for all industries in Floyd County is \$545.49 (U.S. Bureau of Labor Statistics).
- The economy of Floyd County is dependent on the mining industry. The mining industry in Floyd County employs nearly 580 employees. The new mine will directly provide employment for approximately 15 men. This would give out-of-work miners and associated personnel an opportunity for employment while also providing possibilities for entry-level personnel to gain experience in the mining industry. This will also affect the industries that supply the material and equipment needed for mining, as well as engineering services and training that are needed for the mining industry for employment of as many as 75 other people. The unemployment rate in Floyd County is approximately 6.5%.
- Each new mine proposed will solidify the employment for people who may currently be employed looking for better paying jobs in the mining industry. This would allow experienced personnel to advance from current positions thus opening up new positions for less experienced miners who need employment. The proposed life of this mine is 5 years with additions possible. Approximately 219,398 tons are expected to be recovered from this mine which will generate around \$383,947 in severance taxes. Floyd County will receive approximately \$57,592 (15%) of these taxes to be used for local education, health care, and other city and county projects. The unemployment rate in Floyd County will rise approximately 2% without this job.

New revenue for Floyd County would also be generated from local income, property and sales taxes. The average person will pay approximately 30% of there income in federal taxes. The proposed job will employ 15 men that will pay approximately \$168,212 in federal taxes. The facilities will create additional revenue to the local businesses of the area through supplies and services needed for the mining operation and fulfilling the needs of the employees of the operation. The proposed mining will increase economic benefits to the area and will perpetuate those already in existence.

- Item 5 The jobs this proposed mine will create provide some of the highest wages in Floyd County. With an average weekly wage of \$778.76, a Floyd County miner makes approximately \$233.00 dollars more on the week than the average industry worker in Floyd County. The creation of these jobs also allows taxes to be collected spurring community development and the creation of non-coal related jobs. Severance taxes can be used to improve schools, water lines, sewage facilities and other community resources of Floyd County.
- Item 10 The facility is expected to employ approximately 15 men. Thus it will impact the 15 households of those men plus the households of at least another 50 local business owners in Floyd and surrounding counties and their employees that provide goods and services to the facility. The average weekly wage in the mining industry for Floyd County is \$778.76. The average weekly wage for all industries in Floyd County is \$545.49 (U.S. Bureau of Labor Statistics).
- Item 11 The households of the 15 employees will be impacted by the higher than average incomes provided by the jobs. The average weekly wage in the mining industry for Floyd County is \$778.76. The average weekly wage for all industries in Floyd County is \$545.49 (U.S. Bureau of Labor Statistics). Another 75 households of the business owners and workers who provide services for the mine will be impacted by the increased revenue this mine will provide to the existing businesses. The employees will be impacted positively with a more secure employment outlook due to the increased revenue.
- Item 12 There are no other existing sewage treatment facilities located within the area to replace. The nearest facility is 8.2 miles away.
- Item 13 Any discharges that exist in the proposed mining area because of 60 acres of pre-law mining and 60 acres of logging activities along with all other discharges in the area will now be treated under this operation.

- Item 14 This area has been logged and a portion of the Broas seam has been previously contour mined by pre-law operations and the Richardson seam has been mountain top mined. Approximately. Drainage that flows through previously mined areas and areas that have been logged will flow through proposed sediment ponds. Thus these current and anticipated discharges will be treated in the proposed structures.
- Item I5 The increase in productivity levels not only provides jobs in Floyd County at a higher than average wage (\$778.76 for mining jobs vs. \$545.49 for other industries) but will create additional revenue for the businesses of the area. The additional revenue of the local businesses and the severance tax dollars (approximately \$500,000) generated by the project will provide the local government with additional tax revenues. These can be utilized for public safety including law enforcement, fire control, and ambulance services while also aiding in the industrial and economic development of the area
- Item 16 By conducting the preponderance of this operation through underground mining, we are disturbing much less surface area and accessing the coal in a more environmentally friendly way. Discharges will be reduced drastically as the surface area involved is only a fraction of what would be involved in a surface area mining operation. Efficiency is increased as much less overburden needs to be removed and costs can be kept down thus providing more money to be available for the workers and in turn the economy of the area when the workers purchase goods such as homes, automobiles and food.

The face-up portion of this permit will return mine areas to A.O.C. while reestablishing approximate original drainage patterns and vegetation.

